

AMENDMENTS TO THE CLAIMS

1. (currently amended) Butene-1 copolymers ~~containing~~ having a content up to 40% by mol of at least one comonomer of ethylene and/or and propylene derived units, characterized by the following properties ~~determined by the methods reported in the description:~~
 - a) ~~Product a~~ product of the reactivity ratios $r_1 \cdot r_2 \leq 2$;
 - b) ~~Content a~~ content of butene-1 units in form of isotactic pentads (mmmm) > 98%; and
 - c) an absence of 4,1 insertions of butene units.
2. (currently amended) The butene-1 copolymers according to claim 1 in which the content of (mmmm) is >99% ~~in correspondence of~~ and the reactivity ratio $r_1 \cdot r_2 \leq 1$.
3. (currently amended) The butene-1 copolymers according to claim 1 ~~characterized by the following features: wherein~~
 - a) the reactivity ratio $r_1 \cdot r_2 \leq 1.5$; and
 - b) ~~Content~~ the content of butene-1 units in the form of isotactic pentads (mmmm) > 98.5%;
and
 - c) ~~absence of 4,1 insertions.~~
4. (original) The butene-1 copolymers according to claim 3 having a PI in the range 3-10.
5. (currently amended) The butene-1 copolymers according to claim 1 ~~having a~~ wherein the content of the at least one comonomer of ethylene and/or and propylene derived units ~~ranging ranges~~ from 0.1 to 35% by mol.
6. (currently amended) The butene-1 copolymers according to claim 5 ~~having a~~ wherein the content of the at least one comonomer of ethylene and/or and propylene derived units ~~ranging ranges~~ from 0.5 to 30% by mol.
7. (currently amended) The butene-1 copolymers according to claim 6 wherein the at least one comonomer is ethylene.
8. (currently amended) The butene-1 copolymers according to claim 6 wherein the at least one comonomer is propylene.
9. (currently amended) The butene-1 copolymers according to claim 6 ~~having a~~ wherein the content of ethylene or propylene is lower than about 3%.
10. (currently amended) The butene-1 copolymers according to claim 6 ~~having a~~ wherein the content of the at least one comonomer of ethylene and/or and propylene is in the range of

(B) from 60 to 95%wt of a propylene copolymer containing from 1 to 30 % by mol of at least one of ethylene and/or and an α -olefin of formula $\text{CH}_2=\text{CHR}$, where R is a C2-C10 hydrocarbon group.

18. (currently amended) ~~A~~The polymer composition according to claim 17 in which said α -olefin is butene-1.

19. (currently amended) ~~A~~The polymer composition according to claim 18 in which the component (B) is selected from either (a) a propylene copolymer containing both ethylene and butene-1 wherein the content of ethylene is from 1 to 10% and the content of butene-1 is from 1 to 10% or (b) a propylene copolymer containing from 2 to 15% by mol of butene-1.

20. (currently amended) A polymer composition comprising: (A) a butene-1 copolymer ~~according to claim 1~~ having a content up to 40% by mol of at least one comonomer of ethylene and propylene derived units, characterized by the following properties:

- a) a product of the reactivity ratios $r_1 \cdot r_2 \leq 2$;
- b) a content of butene-1 units in form of isotactic pentads (mmmm) > 98%; and
- c) an absence of 4,1 insertions of butene units,

not showing a melting point; and

(B) a butene-1 copolymer ~~according to claim 1~~ having a content up to 40% by mol of at least one comonomer of ethylene and propylene derived units, characterized by the following properties:

- a) a product of the reactivity ratios $r_1 \cdot r_2 \leq 2$;
- b) a content of butene-1 units in form of isotactic pentads (mmmm) > 98%; and
- c) an absence of 4,1 insertions of butene units,

showing a melting point.

21. (currently amended) ~~A~~The polymer composition according to claim 20 in which (A) is a butene-1/ethylene copolymer having a content of ethylene of higher than 10% and (B) is a butene-1/ethylene copolymer having a content of ethylene of less than ~~40%~~ 10% by mol.

22. (currently amended) A polymer composition comprising[[]]:

- (i) from 5 to 25% wt of ~~the a~~ butene-1 copolymer ~~of the invention~~ having a content up to 40% by mol of at least one comonomer of ethylene and propylene derived units, characterized by the following properties:

- a) a product of the reactivity ratios $r_1 \cdot r_2 \leq 2$;
- b) a content of butene-1 units in form of isotactic pentads (mmmm) > 98%; and
- c) an absence of 4,1 insertions of butene units;

and

- (ii) from 75 to 95%wt of an ethylene polymer; said percentages being based on the sum of (i)+(ii).

23. (currently amended) ~~Manufactured articles obtained from the butene-1 copolymers or their blends according to any of the preceding claims~~

from a composition comprising at least one butene-1 copolymer having a content up to 40% by mol of at least one comonomer of ethylene and propylene derived units, characterized by the following properties:

- a) a product of the reactivity ratios $r_1 \cdot r_2 \leq 2$;
- b) a content of butene-1 units in form of isotactic pentads (mmmm) > 98%; and
- c) an absence of 4,1 insertions of butene units.

24. (currently amended) ~~Process for the preparation of the butene-1 copolymers according to any of claims 1-13~~ A process for preparing butene-1 copolymers having a content up to 40% by mol of at least one comonomer of ethylene and propylene derived units, characterized by the following properties:

- a) a product of the reactivity ratios $r_1 \cdot r_2 \leq 2$;
- b) a content of butene-1 units in form of isotactic pentads (mmmm) > 98%; and
- c) an absence of 4,1 insertions of butene units,

the process comprising copolymerizing butene-1 and at least one of ethylene ~~and/or~~ and propylene in the presence of a stereospecific catalyst comprising (A) a solid catalyst component comprising a Ti compound and an electron-donor compound selected from phthalates, supported on $MgCl_2$; (B) an alkylaluminum compound and, (C) an external electron-donor compound of formula $R_a^5 R_b^6 Si(OR^7)_c$, where a and b are ~~integer~~ integers from 0 to 2, c is an integer from 1 to 3 and the sum (a+b+c) is 4; R^5 , R^6 , and R^7 , are alkyl, cycloalkyl or aryl radicals with 1-18 carbon atoms optionally containing heteroatoms.

25. (original) The process according to claim 24 wherein the external donor is hexyltrimethoxysilane.

26. (currently amended) ~~Process~~The process according to claim 24 ~~or 25~~ carried out in liquid butene-1.
27. (currently amended) ~~Process~~The process according to claim 26 in which the copolymerization is carried out in at least two reactors working under different reaction conditions.